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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/772,030

02/04/2004

Louay Jalloul

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08/23/2006

MOTOROLA, INC.

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SCHAUMBURG, IL 60196

EXAMINER

GESESSE, TILAHUN

ART UNIT

PAPER NUMBER

2618

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/772,030

Applicant(s)

JALLOUL ET AL.

Examiner

Tilahun B. Gesesse

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 15 and 16 is/are allowed.
- 6) ☐ Claim(s) 11-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's arguments, see pages 4-6, filed June 8, 2006, with respect to the rejection(s) of claim(s) 11-16 under 35 USC 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Chen et al (US 2002/0154682 A1)"Chen" hereafter.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen.

As per claim 11, Chen teaches an apparatus in a communication system (an apparatus as in fig. 2) comprising:

Chen teaches a first signal (see signal BTSa of fig. 2) processing block(items 204,206,208) for processing a first received signal according to a first communication standard to produce a first received processed signal (out to combiner and decoder , 2nd generation CDMA signal as to BTS A receive signal (see page 1, para 0004 and 0011 and pg 2, para 0017-0018).

Chen teaches a second signal(see signal from BST b) processing block(205,207,209 of fig. 2) for processing a second received signal according to a second communication standard to produce a second received processed signal (see page 1, para 0004 and 0011 and pg 2, para 0017-0018).

Chen teaches a combiner(212 of fig. 2) for combining signal first and second received processed signal to produce a combined signal (see page 2 para 0027-0030 line 15 and fig.2).

As per claim 12, Chen teaches a decoder (see 213 of fig. 2) for decoding the combined signal to retrieve information communicated via the first and second signals (see fig. 2).

As per claim 13, Chen teaches the first processing block (see first block items 204,206,208 of fig. 2) comprising:

Chen teaches a despreader (206) despread the first signal by multiplying the first signal with a first PN sequence compatible to the first communication standard (204 PN1) to produce a first despread signal (see page 2 para 0017 and fig. 2).

Chen teaches a traffic channel Walsh code despreader and demodulator to produce a first demodulated signal from the first despread signal (see page 2, para 0017, lines 17-24 and fig. 2).

Chen teaches a de-interleaving the first demodulated signal (208) according to a first interleaving/deinterleaving function of the first communication standard to produce the first received processed signal (see pg 2, para 0018).

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As per claim 14, Chen teaches the second processing block (205,207,209 of fig.2) comprising:

Chen teaches a despreader despread the second signal by multiplying the second signal with a second PN sequence (205 PN2) compatible to the second communication standard to produce a second despread signal (see page 1, para 0004 and 0011 and pg 2, para 0017-0018)

Chen teaches a traffic channel Walsh code despreader and demodulator(207 of fig. 2) to produce a second demodulated signal from the second despread signal (see page 2 para 0017, lines 17-24).

Chen teaches a deinterleaver (209) deinterleaving the second demodulated signal according to a second interleaving/deinterleaving function of the second communication standard to produce the second received processed signal (see page 2, para 0018 and fig. 2).

Allowable Subject Matter

Claims 15-16 are allowed. The following is an examiner's statement of reasons for allowance: the prior art does not teach a multiplier for scaling the calculated signal energy according the present scaling factor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flexible schedule.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899.

The Central FAX Number is 571-273-8300. For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TG

8/12/06


TILAHUN GESESSE
PRIMARY EXAMINER